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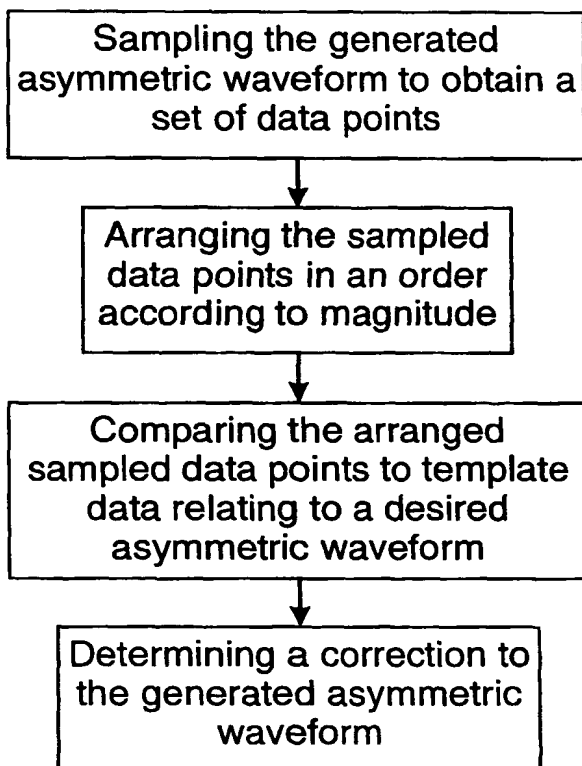
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[Continued on next page]

(54) Title: METHOD OF CONTROLLING AND CORRECTING AN ASYMMETRIC WAVEFORM



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(57) Abstract: A method of controlling an asymmetric waveform generated as a combination of two sinusoidal waves having a frequency that differs by a factor of two, the method including the steps of sampling a generated asymmetric waveform to obtain a set of data points, the set of data points being indicative of the generated asymmetric waveform, arranging the sampled data points in an order according to magnitude, and comparing to template data relating to a desired asymmetric waveform. In dependence upon the comparison, a correction to the generated asymmetric waveform is determined.

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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG,

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 801 379 A (KOUZNETSOV VIKTOR) 1 September 1998 (1998-09-01) cited in the application the whole document	1-15
Y	EP 0 854 366 A (TEKTRONIX INC) 22 July 1998 (1998-07-22) abstract; figures 1,2 column 1-9	1-15
A	EP 0 701 138 A (FLUKE CORP) 13 March 1996 (1996-03-13) the whole document	1-15
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>GUEVREMONT R ET AL: "ATMOSPHERIC PRESSURE ION FOCUSING IN A HIGH-FIELD ASYMMETRIC WAVEFORM ION MOBILITY SPECTROMETER" REVIEW OF SCIENTIFIC INSTRUMENTS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 70, no. 2, February 1999 (1999-02), pages 1370-1383, XP000875375 ISSN: 0034-6748 abstract; figures 2,4,8 page 1370 -page 1371</p> <p>----</p>	1,15
A	<p>WO 92/15150 A (DSP CONSULTANTS LTD) 3 September 1992 (1992-09-03) abstract; figure 1</p> <p>-----</p>	1,15

INTERNATIONAL SEARCH REPORT

information on patent family members

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